

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits   | Search Query  | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|-----------------|------------------|---------|------------------|
| L1    | 7      | ("20020033729"   "20040092296"   "3305733"   "3667055"   "5748023"   "5914701"   "6137375").PN. | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L2    | 1      | 10/542327.app.  | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L3    | 2      | 10/699516.app.  | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L4    | 209    | 455/575.6.ccls.   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L5    | 2323   | 455/556.1.ccls.   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L6    | 2365   | 455/557.ccls.   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L7    | 1241   | 455/73.ccls.  | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L8    | 931    | 455/41.1.ccls.  | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L9    | 1747   | 375/219.ccls.   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L10   | 745    | 375/220.ccls.   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L11   | 191270 | capacitor with (stor\$3 charg\$3)   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L12   | 3126   | L11 and "455".clas.   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L13   | 1633   | (switch same comparator same multiple)  | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L14   | 64     | L13 and "455".clas.   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L15   | 0      | reactnce with adjust\$3   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L16   | 1436   | reactance with adjust\$3  | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L17   | 8695   | L4 L5 L6 L7 L8 L9 L10   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L18   | 10     | L16 and L17   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |
| L19   | 130    | L16 and "455".clas.   | US-PGPUB; USPAT | OR               | ON      | 2009/09/18 11:14 |

|     |         |   |                              |    |    |                  |
|-----|---------|---|------------------------------|----|----|------------------|
| L20 | 1       | L16 and L13   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L21 | 3934476 | compar\$5 with2 switch\$3   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L22 | 3264314 | compar\$5 with2 switch\$3<br>same2 (current adj<br>source)  | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L23 | 58424   | L22 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L24 | 4860    | compar\$5 with switch\$3<br>same (current adj source)   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L25 | 153     | L24 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L26 | 24      | ("3644847"   "3649929"  <br>"3835418"   "5117205"  <br>"5126697"   "5303394"  <br>"5440264"   "5451915"  <br>"5471168"   "5550520"  <br>"5731737"   "5770980").<br>PN. OR ("6137375").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |
| L27 | 8172    | mosfet with series  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |
| L28 | 2860    | mosfet with series with<br>switch\$3  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |
| L29 | 80      | L28 and "455".clas.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |
| L30 | 1       | 10/542327.app.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |
| L31 | 7       | ("20020033729"  <br>"20040092296"  <br>"3305733"   "3667055"  <br>"5748023"   "5914701"  <br>"6137375").PN.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L32 | 1       | 10/542327.app.  | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L33 | 2       | 10/699516.app.  | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L34 | 209     | 455/575.6.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L35 | 2323    | 455/556.1.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L36 | 2365    | 455/557.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L37 | 1241    | 455/73.ccls.  | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |

|     |         |   |                              |    |    |                  |
|-----|---------|---|------------------------------|----|----|------------------|
| L38 | 931     | 455/41.1.ccls.  | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L39 | 1747    | 375/219.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L40 | 745     | 375/220.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L41 | 191270  | capacitor with (stor\$3<br>charg\$3)  | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L42 | 3126    | L41 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L43 | 1633    | (switch same comparator<br>same multiple)   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L44 | 64      | L43 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L45 | 0       | reactnce with adjust\$3   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L46 | 1436    | reactance with adjust\$3  | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L47 | 8695    | L34 L35 L36 L37 L38 L39<br>L40  | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L48 | 10      | L46 and L47   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L49 | 130     | L46 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L50 | 1       | L46 and L43   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L51 | 3934476 | compar\$5 with2 switch\$3   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L52 | 3264314 | compar\$5 with2 switch\$3<br>same2 (current adj<br>source)  | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L53 | 58424   | L52 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L54 | 4860    | compar\$5 with switch\$3<br>same (current adj source)   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L55 | 153     | L54 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2009/09/18 11:14 |
| L56 | 24      | ("3644847"   "3649929"  <br>"3835418"   "5117205"  <br>"5126697"   "5303394"  <br>"5440264"   "5451915"  <br>"5471168"   "5550520"  <br>"5731737"   "5770980").<br>PN. OR ("6137375").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |
| L57 | 8172    | mosfet with series  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |

|     |        |   |                              |    |    |                  |
|-----|--------|---|------------------------------|----|----|------------------|
| L58 | 2860   | mosfet with series with switch\$3   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |
| L59 | 80     | L58 and "455".clas.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |
| L60 | 1      | 10/542327.app.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/09/18 11:14 |
| S1  | 7      | ("20020033729"  <br>"20040092296"  <br>"3305733"   "3667055"  <br>"5748023"   "5914701"  <br>"6137375").PN. | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 11:16 |
| S2  | 1      | 10/542327.app.  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 11:21 |
| S3  | 2      | 10/699516.app.  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 13:53 |
| S4  | 179    | 455/575.6.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 13:58 |
| S5  | 1913   | 455/556.1.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 13:58 |
| S6  | 2185   | 455/557.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 13:58 |
| S7  | 1077   | 455/73.ccls.  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 13:58 |
| S8  | 823    | 455/41.1.ccls.  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 13:58 |
| S9  | 1558   | 375/219.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 13:58 |
| S10 | 680    | 375/220.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 13:58 |
| S11 | 177024 | capacitor with (stor\$3<br>charg\$3)  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 14:00 |
| S12 | 2928   | S11 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 14:01 |
| S13 | 1497   | (switch same comparator<br>same multiple)   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 16:41 |
| S14 | 62     | S13 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 16:41 |
| S15 | 0      | reactnce with adjust\$3   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 16:45 |
| S16 | 1329   | reactance with adjust\$3  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 16:46 |
| S17 | 7659   | S4 S5 S6 S7 S8 S9 S10   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 16:52 |
| S18 | 6      | S16 and S17   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 16:52 |

|     |         |   |                              |    |    |                  |
|-----|---------|---|------------------------------|----|----|------------------|
| S19 | 119     | S16 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 16:52 |
| S20 | 1       | S16 and S13   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 16:53 |
| S21 | 3634836 | compar\$5 with2 switch\$3   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 17:24 |
| S22 | 3011185 | compar\$5 with2 switch\$3<br>same2 (current adj<br>source)  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 17:26 |
| S23 | 52097   | S22 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 17:26 |
| S24 | 4413    | compar\$5 with switch\$3<br>same (current adj source)   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 17:26 |
| S25 | 138     | S24 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/05 17:26 |
| S26 | 23      | ("3644847"   "3649929"  <br>"3835418"   "5117205"  <br>"5126697"   "5303394"  <br>"5440264"   "5451915"  <br>"5471168"   "5550520"  <br>"5731737"   "5770980").<br>PN. OR ("6137375").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/05 17:43 |
| S27 | 7574    | mosfet with series  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/05 17:45 |
| S28 | 2638    | mosfet with series with<br>switch\$3  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/05 17:45 |
| S29 | 72      | S28 and "455".clas.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/05 17:46 |
| S30 | 1       | 10/542327.app.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/05 18:08 |
| S31 | 7       | ("20020033729"  <br>"20040092296"  <br>"3305733"   "3667055"  <br>"5748023"   "5914701"  <br>"6137375").PN.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S32 | 1       | 10/542327.app.  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S33 | 2       | 10/699516.app.  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S34 | 179     | 455/575.6.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S35 | 1916    | 455/556.1.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S36 | 2186    | 455/557.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |

|     |         |   |                              |    |    |                  |
|-----|---------|---|------------------------------|----|----|------------------|
| S37 | 1078    | 455/73.ccls.  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S38 | 823     | 455/41.1.ccls.  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S39 | 1560    | 375/219.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S40 | 680     | 375/220.ccls.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S41 | 177158  | capacitor with (stor\$3<br>charg\$3)  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S42 | 2930    | S41 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S43 | 1498    | (switch same comparator<br>same multiple)   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S44 | 62      | S43 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S45 | 0       | reactnce with adjust\$3   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S46 | 1330    | reactance with adjust\$3  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S47 | 7666    | S34 S35 S36 S37 S38<br>S39 S40  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S48 | 6       | S46 and S47   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S49 | 119     | S46 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S50 | 1       | S46 and S43   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S51 | 3638334 | compar\$5 with2 switch\$3   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S52 | 3014190 | compar\$5 with2 switch\$3<br>same2 (current adj<br>source)  | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S53 | 52145   | S52 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S54 | 4416    | compar\$5 with switch\$3<br>same (current adj source)   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S55 | 138     | S54 and "455".clas.   | US-PGPUB;<br>USPAT           | OR | ON | 2008/11/06 09:42 |
| S56 | 23      | ("3644847"   "3649929"  <br>"3835418"   "5117205"  <br>"5126697"   "5303394"  <br>"5440264"   "5451915"  <br>"5471168"   "5550520"  <br>"5731737"   "5770980").<br>PN. OR ("6137375").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/06 09:42 |

|     |      |                                      |                              |    |    |                  |
|-----|------|--------------------------------------|------------------------------|----|----|------------------|
| S57 | 7584 | mosfet with series                   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/06 09:42 |
| S58 | 2641 | mosfet with series with<br>switch\$3 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/06 09:42 |
| S59 | 72   | S58 and "455".clas.                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/06 09:42 |
| S60 | 1    | 10/542327.app.                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/11/06 09:42 |

**EAST Search History (I nterference)**

| Ref # | Hits | Search Query  | DBs                      | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--------------------------|------------------|---------|------------------|
| L61   | 1    | (adjust\$3 reactance<br>electrode resonance<br>detect\$3 constant<br>voltage source switch<br>\$3 integrat\$3 compar<br>\$6 capacitor).clm. | US-PGPUB;<br>USPAT; UPAD | AND              | OFF     | 2009/09/18 11:34 |
| L62   | 1    | (adjust\$3 reactance<br>electrode resonance<br>detect\$3 voltage<br>source switch\$3<br>integrat\$3 compar\$6<br>capacitor).clm.            | US-PGPUB;<br>USPAT; UPAD | AND              | OFF     | 2009/09/18 11:34 |
| L63   | 1    | (adjust\$3 reactance<br>resonance detect\$3<br>voltage source switch<br>\$3 integrat\$3 compar<br>\$6 capacitor).clm.                       | US-PGPUB;<br>USPAT; UPAD | AND              | OFF     | 2009/09/18 11:34 |
| L64   | 1    | (adjust\$3 reactance<br>resonance detect\$3<br>switch\$3 integrat\$3<br>compar\$6 capacitor).<br>clm.                                       | US-PGPUB;<br>USPAT; UPAD | AND              | OFF     | 2009/09/18 11:35 |
| L65   | 18   | (adjust\$3 resonance<br>detect\$3 switch\$3<br>integrat\$3 compar\$6<br>capacitor).clm.   | US-PGPUB;<br>USPAT; UPAD | AND              | OFF     | 2009/09/18 11:35 |

**9/ 18/ 2009 12:16:34 PM**
**H:\ EAST\ Workspaces\ 10542327\_reatance\_adjuster\_with\_capacitor\_before\_integrator\_circuit.  
wsp**